

## SYNTHESIS OF CHEMICAL TAGS

### ABSTRACT OF THE DISCLOSURE

A method for forming a biological chemical tag. At least one double stranded DNA molecule is provided. At least a portion of the at least one double stranded DNA molecule is denatured. At least one chemical moiety that prohibits recrystallization of the at least one denatured portion to which the at least one chemical moiety is attached is attached to at least one nucleotide in the at least one denatured portion of the at least one double stranded DNA molecule.